

Title (en)
FORCE TRANSMISSION MECHANISM FOR SURGICAL INSTRUMENT, AND RELATED SYSTEMS AND METHODS

Title (de)
KRAFTÜBERTRAGUNGSMECHANISMUS FÜR CHIRURGISCHES INSTRUMENT SOWIE ENTSPRECHENDE SYSTEME UND VERFAHREN

Title (fr)
MÉCANISME DE TRANSMISSION DE FORCE POUR INSTRUMENT CHIRURGICAL, ET SYSTÈMES ET PROCÉDÉS ASSOCIÉS

Publication
EP 3179953 A4 20180314 (EN)

Application
EP 15831744 A 20150813

Priority
• US 201462037897 P 20140815
• US 2015045036 W 20150813

Abstract (en)
[origin: WO2016025700A1] A force transmission mechanism for a surgical instrument includes a worm drive, a lever arm, and an actuation element. The lever arm may include a follower member at a first end of the lever arm. The follower member engages the worm drive and is configured to be driven by the worm drive. The actuation element is connected the lever arm. The actuation element is configured to transmit force to actuate an end effector of the surgical instrument. Rotational movement of the worm drive imparts translational movement to the actuation element via the lever arm.

IPC 8 full level
A61B 34/00 (2016.01); **A61B 17/00** (2006.01); **A61B 17/29** (2006.01); **F16H 25/08** (2006.01)

CPC (source: EP KR US)
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Citation (search report)
• [X] GB 639967 A 19500712 - ADAM FLECK
• [X] CN 2171319 Y 19940713 - ZHANG MENGZHENG [CN]
• [A] EP 2108339 A1 20091014 - BRAVO CASTILLO LUIS ARMANDO [MX]
• See also references of WO 2016025700A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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WO 2016025700 A1 20160218; CN 106659543 A 20170510; CN 106659543 B 20190719; EP 3179953 A1 20170621; EP 3179953 A4 20180314; EP 3179953 B1 20200304; EP 3616640 A1 20200304; EP 3616640 B1 20210728; KR 102443834 B1 20220919; KR 102605905 B1 20231124; KR 20170042673 A 20170419; KR 20220131346 A 20220927; US 11013566 B2 20210525; US 2017231703 A1 20170817; US 2021338352 A1 20211104

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